Rajiv Gandhi University of Health Sciences, Karnataka

Second Year B.Sc. (M.L.T) Degree Examination – 28-Oct-2026

Time: Three Hours **Max. Marks: 100**

BIOCHEMISTRY – II (RS-4)

Q.P. CODE: 3279

Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary

LONG ESSAYS (Second Question Choice) **2 x 10 = 20 Marks**

1. Physical, chemical and biological hazards and safety measures in clinical laboratory
2. Explain the principle, instrumentation and applications of Thin layer Chromatography
   OR
   Write the general properties of Enzymes and explain the various factors influences the enzyme activity

SHORT ESSAYS (Question No 5 & 10 choice) **10 x 5 = 50 Marks**

3. Denaturation of proteins
4. Capillary blood sampling
5. Cleaning of glass and plastic wares used in laboratory
   OR
   Urea cycle
6. Ketosis
7. Write the procedure of collecting of 24 hours urine and list the tests which requires the same
8. Use, care and maintenance of an incubator
9. Biomedical importance of lactose and sucrose
10. Use, care and maintenance of a pH meter
    OR
    Water distillation apparatus
11. Etiology of Type I and Type II diabetes mellitus
12. General principle and applications of electrophoresis

SHORT ANSWER **10 x 3 = 30 Marks**

13. Any three present in protein structure
14. Purpose and principle of Jaffe's test
15. Three examples of sugar alcohols
16. Name three ketone bodies
17. Glucometers
18. Glycated HbA1C
19. Difference between Turbidimetry and Nephlelometry
20. Define SI units
21. Uses of deep freezers and cold box
22. Name three urine preservatives

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